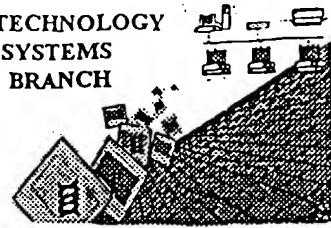# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/623,567

Source: I-FUD

Date Processed by STIC: 11-19-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
    U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

IFWO

RAW SEQUENCE LISTING   DATE: 11/19/2004
PATENT APPLICATION: US/10/623,567   TIME: 10:41:17

Input Set : A:\CRF Sequence Listing.TXT
Output Set: N:\CRF4\11192004\J623567.raw

```
      3 <110> APPLICANT: Seoul National University Industry Foundation
      5 <120> TITLE OF INVENTION: Method for stimulating wound healing
      7 <130> FILE REFERENCE: OP03-1017
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/623,567
C-->  9 <141> CURRENT FILING DATE: 2003-07-22
      9 <150> PRIOR APPLICATION NUMBER: KR 2002-42858
     10 <151> PRIOR FILING DATE: 2002-07-22
     12 <160> NUMBER OF SEQ ID NOS: 7
     14 <170> SOFTWARE: KopatentIn 1.71
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 312
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Homo sapiens
     21 <400> SEQUENCE: 1
     22 Met Ala Asn Asn Asp Ala Val Leu Lys Arg Leu Glu Gln Lys Gly Ala
     23  1               5                  10                  15
     25 Glu Ala Asp Gln Ile Ile Glu Tyr Leu Lys Gln Gln Val Ser Leu Leu
     26              20                  25                  30
     28 Lys Glu Lys Ala Ile Leu Gln Ala Thr Leu Arg Glu Glu Lys Lys Leu
     29          35                  40                  45
     31 Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
     32      50                  55                  60
     34 Glu Leu Ile Gln Ala Glu Ile Gln Asn Gly Val Lys Gln Ile Ala Phe
     35  65                  70                  75                  80
     37 Pro Ser Gly Thr Pro Leu His Ala Asn Ser Met Val Ser Glu Asn Val
     38              85                  90                  95
     40 Ile Gln Ser Thr Ala Val Thr Thr Val Ser Ser Gly Thr Lys Glu Gln
     41              100                 105                 110
     43 Ile Lys Gly Gly Thr Gly Asp Glu Lys Lys Ala Lys Glu Lys Ile Glu
     44          115                 120                 125
     46 Lys Lys Gly Glu Lys Lys Glu Lys Lys Gln Gln Ser Ile Ala Gly Ser
     47      130                 135                 140
     49 Ala Asp Ser Lys Pro Ile Asp Val Ser Arg Leu Asp Leu Arg Ile Gly
     50 145                 150                 155                 160
     52 Cys Ile Ile Thr Ala Arg Lys His Pro Asp Ala Asp Ser Leu Tyr Val
     53              165                 170                 175
     55 Glu Glu Val Asp Val Gly Glu Ile Ala Pro Arg Thr Val Val Ser Gly
     56              180                 185                 190
     58 Leu Val Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Ile
     59          195                 200                 205
     61 Leu Leu Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln
     62      210                 215                 220
     64 Ala Met Val Met Cys Ala Ser Ser Pro Glu Lys Ile Glu Ile Leu Ala
```

RAW SEQUENCE LISTING   DATE: 11/19/2004
PATENT APPLICATION: US/10/623,567   TIME: 10:41:17

Input Set : **A:\CRF Sequence Listing.TXT**
Output Set: **N:\CRF4\11192004\J623567.raw**

```
65 225                     230                     235                     240
67 Pro Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe
68              245                     250                     255
70 Pro Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu
71              260                     265                     270
73 Gln Ile Gln Pro Asp Leu His Thr Asn Asp Glu Cys Val Ala Thr Tyr
74         275                     280                     285
76 Lys Gly Val Pro Phe Glu Val Lys Gly Lys Gly Val Cys Arg Ala Gln
77     290                     295                     300
79 Thr Met Ser Asn Ser Gly Ile Lys
80 305                     310
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 108
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: probe for Southern blot
92 <400> SEQUENCE: 2
93 tgaatgaact gcaggacgag gcagcgcggc tatggtggct ggccacgacg ggcgttcctt        60
95 gcgcagctgt gctcgacgtt gtcactgaag cgggaaggac tggctgct                    108
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 1226
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: probe for Southern blot
107 <400> SEQUENCE: 3
108 aagcttcgac catatgggag agctcccaac gcgttggatg catagcttga gtnnnnnnnnn       60
110 nnnnnnnnnn nnnnnnnnng aattcaataa ggagactttt taaaaagata tttttatctt       120
112 aatgtgtgtg tgcctgcatt tgtgtgtatg caccattgcg tgcataccta gagcctgcag       180
114 aggctagaag aggggttcaa cctggaactg aggctacagg tggttgttga gtatccacat       240
116 agatgctcgg aattaaacct gggttctcca gtcccaagga gactaaatat tttcaaagta       300
118 agcctgcact ttgtactaca gtaaaataaa accactgtgg agtgactaat ataaatagt        360
120 aagatgagct ctagattaac aggcaaaagt ttaagttttc agtattgtta aagtagcacc       420
122 atctccctaa agagaaccat atttattttc cttccagtct tctgtgtttc cctcttttgt       480
124 ttgaaagttt agtgagtgct tattttctct actgtgaaca caacatgaga caaactcagg       540
126 gattgtaaga gatcatggac ataaattact tttaggaacc tggcactcaa atgaaaatta       600
128 attagtgaca agttggcatg gcattttatt attaaccctg ggtggnnnnn nnnnnnnnnn       660
130 nnntaaactg cgtggtgatg atttgtgatt gcaagaagac atagatatga agctctgaac       720
132 aacagtgtcc aggcaacatg tgaagaaaag gccctatgga ggggcaggag agcaggtgag       780
134 agcatcctaa tagaaattca gacagtgaag caagaagttg ttcacacagc ccacacagcc       840
136 tgttaagtgt tcttcactta aggtttgttg actgtaacca ccttttctaa agaaacatt        900
138 aagaaaaaca taggtgtctg ttcgcttcct atttgctgct gtgattaaaa cgctgaccaa       960
140 aagcaacttg gctgaggagc cgtttttgta tttctccgtt taggtagcaa tgaagttgga      1020
142 gcaggaggaa gggtgcttac aggctagctc tcctgctctc cttgagcaag cattcttgtg      1080
144 gtagctcagg actccctgca cagtgacaca ccacgtgctt cttcaggggg acttcaaact      1140
146 actgtacacc ctttccttct gtcgaccata tgggagagct cccaacgcgt tggatgcata      1200
148 gcttgagtat nnnnnnnnnn nagctt                                          1226
151 <210> SEQ ID NO: 4
```

[handwritten annotations: "Pls explain 'N' locations." with arrow pointing to line 108; "W" marker with arrow at line 108; circles around "nnnnnnnnn" segments; "See error explanation on page 5." with arrow pointing to line 151]

```
152 <211> LENGTH: 30
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: IF3 primer for PCR
160 <400> SEQUENCE: 4
161 gaggacaatg tgctccataa acactcactg                              30
164 <210> SEQ ID NO: 5
165 <211> LENGTH: 27
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: IR3 primer for PCR
173 <400> SEQUENCE: 5
174 cgttacttaa gctagcttgc cacctac                                 27
177 <210> SEQ ID NO: 6
178 <211> LENGTH: 31
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: pKOF2 primer for PCR
186 <400> SEQUENCE: 6
187 tgacatggtt gccagagaag gttctcaagg a                            31
190 <210> SEQ ID NO: 7
191 <211> LENGTH: 838
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: p43-specific probe for Northern blot
199 <400> SEQUENCE: 7
200 ggtcaccgct tcatgtttct ctgccgattc tggggaaaga tggcaacgaa tgatgctgtt    60
202 ctgaagaggc tggagcagaa gggtgcagag gcggatcaga tcatcgaata tctcaagcag   120
204 caggttgctc ttcttaagga gaaagcaatt ttgcaggcaa caatgagaga agaaaagaaa   180
206 cttcgagttg aaaatgctaa actgaaaaaa gaaatagaag agctaaagca agagctgatt   240
208 ctggcagaaa ttcataacgg agtggagcaa gtgcgtgttc gattgagtac tccactgcag   300
210 acgaactgta ctgcttctga aagtgtggtg cagtctccat cagtagcaac caccgcctct   360
212 cctgctacaa aagagcagat caaagcggga gaagaaaga aggtgaaaga gaagactgaa   420
214 aagaaaggag agaaaaagga gaagcagcag tcggcagcag caagtactga ctccaagcct   480
216 atcgacgcat cgcgtctgga tcttcgaatt ggttgtattg ttactgccaa gaagcaccct   540
218 gatgcagatt cactgtatgt ggaggaagta gatgtgggag aagcagcccc gcgcacggtc   600
220 gtcagcgggc tggtgaatca tgttcctcta gaacagatgc aaaatcgtat ggtggtttta   660
222 ctctgtaatc tgaagcctgc aaagatgcgg ggagttctgt ctcaagccat ggtgatgtgt   720
224 gccagttcac cagagaaagt ggagattctg gcccctccca acgggtccgt tcctggggac   780
226 agaattactt ttgatgcttt tcctggagag cctgacaagg agctaaaccc taagaaga    838
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/19/2004
PATENT APPLICATION: US/10/623,567   TIME: 10:41:18

Input Set : A:\CRF Sequence Listing.TXT
Output Set: N:\CRF4\11192004\J623567.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72
Seq#:3; N Pos. 73,74,75,76,77,78,79,646,647,648,649,650,651,652,653,654,655
Seq#:3; N Pos. 656,657,658,659,660,661,662,663,1212,1213,1214,1215,1216
Seq#:3; N Pos. 1217,1218,1219,1220,1221

VARIABLE LOCATION SUMMARY   DATE: 11/19/2004
PATENT APPLICATION: **US/10/623,567**   TIME: 10:41:18

Input Set : **A:\CRF Sequence Listing.TXT**
Output Set: **N:\CRF4\11192004\J623567.raw**

Error Explanation: ✓

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:3; N Pos. 53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72
Seq#:3; N Pos. 73,74,75,76,77,78,79,646,647,648,649,650,651,652,653,654,655
Seq#:3; N Pos. 656,657,658,659,660,661,662,663,1212,1213,1214,1215,1216
Seq#:3; N Pos. 1217,1218,1219,1220,1221

VERIFICATION SUMMARY   DATE: 11/19/2004
PATENT APPLICATION: **US/10/623,567**   TIME: 10:41:18

Input Set : **A:\CRF Sequence Listing.TXT**
Output Set: **N:\CRF4\11192004\J623567.raw**

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:108 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:3
L:108 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
```